IN THE CLAIMS:

1. (currently amended) Solenoid valve with winding (12) surrounding a pole core (21) and held in a housing (2) and a spring-stressed flat armature (38), which in its rest position forms an axial air gap with the pole core (21) and which is fastened to a plunger (36) that passes through the pole core (21), and on the end section of which that is at a distance from the flat armature a connection can be controlled between a pressure and a drain connection (P, T), characterized in that the pole ~~ore~~ core (21) is pressure-compensated on both of its faces.

2. (currently amended) Solenoid valve according to claim 1, characterized in that both faces of the pole core (21) are connected to ~~a~~ said drain connection (T).

3. (previously amended) Solenoid valve according to claim 1, characterized by a pole disk (48) that surrounds the pole core (~~1~~21) at a distance and that, with the flat armature (38) delimits a partial area of the air gap lying radially on the outside.

4. (currently amended) Solenoid valve according to claim ~~1~~3, characterized in that the pole disk (48) is connected to the housing (2) ~~preferably by crimping or pressing~~.

5. (previously amended) Solenoid valve according to claim 1, characterized by a valve body (28) that is prestressed against a valve seat (34) by the plunger (36).

6. (previously amended) Solenoid valve according to claim 1, characterized in that the two faces of the pole core(21) are connected to each other by a compensating channel.

7. (currently amended) Solenoid valve according to claim 6, characterized in that the compensating channel is formed between the plunger (36) and an axial hole of the pole core (21).

8. (original) Solenoid valve according to claim 6, characterized in that the compensating channel extends along the outer circumference of the pole core (21).

9. (currently amended) Solenoid valve according to claim 5, characterized in that the valve seat (34) is formed of an insert piece (26) that is fastened in housing (2) ~~preferably by crimping or pressing~~.

10. (previously amended) Solenoid valve according to claim 1, characterized by a connecting hole (22) that is formed between a holding chamber (20) for the pole core (21) and a chamber (30) of the housing on the drain side, through which the plunger (36) passes with radial play.

11. (currently amended) Solenoid valve according to claim 1, characterized in that the armature chamber (56) is closed by a cover (42) through which coil pins (16) pass, whereby a ~~slot~~ gap between coil pin (16) and cover passage is sealed by means of a sealing ring.

B5 12. (currently amended) Solenoid valve according to claim 11, characterized in that the coil pins (16) are formed as connector ~~or pin~~ pins ~~exits~~.

13. (currently amended) Solenoid valve according to claim 11, characterized in that housing (2) is screwed connected with cover (42)~~, flanged or cast~~.

14. (currently amended) Solenoid valve according to claim ~~1~~71, characterized in that housing (2) is screwed connected with cover (42)~~, flanged or cast~~.

B6 15. (new) Solenoid valve according to claim 2, characterized by a pole disk (48) that surrounds the pole core (21) at a distance and that, with the flat armature (38) delimits a partial area of the air gap lying radially on the outside.

4 16. (new) Solenoid valve according to claim 15, characterized in that the pole disk (48) is connected to the housing (2).